

## MINIATURISED ELECTRO-OPTICAL DEVICE AND CORRESPONDING USES

5

### ABSTRACT

The invention discloses a miniaturised electro-optical device comprising a first zone facing a second zone, a first condenser plate, a  
10 second condenser plate arranged in the second zone and smaller than or equal to the first condenser plate, an intermediate space between both zones, with a conductive element arranged therein and which is independent from the side walls and moves thereacross space depending on voltages present across both plates, two inlet/outlet points for light of an  
15 optical circuit, where said conductive element modifies the state of passage of light between the inlet/outlet points when it is in contact with the stop. The device can be used as an accelerometer, a tiltmeter, a Coriolis force detector, a microphone, for acoustic applications, for the manufacture of an optical switching matrix, for the projection of images, as a pressure,  
20 flowrate, temperature, gas, etc. sensor.

(Fig. 5)